1) docker images

PS C:\Program Files\Docker\Docker> <mark>docker</mark> images REPOSITORY TAG IMAGE ID CREATED SIZE

2) docker search

PS C:\Program Files\Docker\Docker> docker search ubuntu				
NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
ubuntu	Ubuntu is a Debian-based Linux operating sys	12402	[OK]	
dorowu/ubuntu-desktop-lxde-vnc	Docker image to provide HTML5 VNC interface	543		[OK]
websphere-liberty	WebSphere Liberty multi-architecture images	274	[OK]	
rastasheep/ubuntu-sshd	Dockerized SSH service, built on top of offi	253		[OK]
consol/ubuntu-xfce-vnc	Ubuntu container with "headless" VNC session	241		[OK]
ubuntu-upstart	Upstart is an event-based replacement for th	110	[OK]	
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mysql-5	ubuntu-16-nginx-php-phpmyadmin-mysql-5	50		[OK]
open-liberty	Open Liberty multi-architecture images based	46	[OK]	
ubuntu-debootstrap	debootstrapvariant=minbasecomponents=m	44	[OK]	
i386/ubuntu	Ubuntu is a Debian-based Linux operating sys	25		
solita/ubuntu-systemd	Ubuntu + systemd	24		[OK]
1and1internet/ubuntu-16-apache-php-5.6	ubuntu-16-apache-php-5.6	14		[OK]
1and1internet/ubuntu-16-apache-php-7.0	ubuntu-16-apache-php-7.0	13		[OK]
<pre>1and1internet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10</pre>	ubuntu-16-nginx-php-phpmyadmin-mariadb-10	11		[OK]
1and1internet/ubuntu-16-nginx-php-5.6-wordpress-4	ubuntu-16-nginx-php-5.6-wordpress-4	9		[OK]
1and1internet/ubuntu-16-nginx-php-5.6	ubuntu-16-nginx-php-5.6	8		[OK]
1and1internet/ubuntu-16-apache-php-7.1	ubuntu-16-apache-php-7.1	7		[OK]
1and1internet/ubuntu-16-nginx-php-7.0	ubuntu-16-nginx-php-7.0	4		[OK]
pivotaldata/ubuntu	A quick freshening-up of the base Ubuntu doc	4		
1and1internet/ubuntu-16-nginx-php-7.1-wordpress-4	ubuntu-16-nginx-php-7.1-wordpress-4			[OK]
pivotaldata/ubuntu16.04-build	Ubuntu 16.04 image for GPDB compilation	2		
landlinternet/ubuntu-16-php-7.1	ubuntu-16-php-7.1	1		[OK]
pivotaldata/ubuntu-gpdb-dev	Ubuntu images for GPDB development	1		
smartentry/ubuntu	ubuntu with smartentry	1		[OK]
pivotaldata/ubuntu16.04-test	Ubuntu 16.04 image for GPDB testing	0		
PS C:\Program Files\Docker\Docker>				

docker pull ubuntu:16:04

```
PS C:\Program Files\Docker\Docker> docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
61e03ba1d414: Pull complete
4afb39f216bd: Pull complete
e489abdc9f90: Pull complete
999fff7bcc24: Pull complete
Digest: sha256:6aab78d1825b4c15c159fecc62b8eef4fdf0c693a15aace3a605ad44e5e2df0c
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04
```

3) docker pull ubuntu:16.10

```
PS C:\Program Files\Docker\Docker> docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10
```

docker images

PS C:\Program Files\Docker\Docker> docker images						
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE		
ubuntu	16.04	065cf14a189c	2 days ago	135MB		
ubuntu	16.10	7d3f705d307c	3 years ago	107MB		
05 6 10	E13 V					

4) removing ubuntu 16.10 images PS C:\Program Files\Docker\Docker> docker rmi 7d Untagged: ubuntu:16.10 Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d<u>2</u>5f94bca18a Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7 Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9 Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e docker images REPOSITORY TAG IMAGE ID CREATED SIZE 16.04 065cf14a189c ubuntu 2 days ago 135MB Running our Container 1) docker run ubuntu:16.04 /bin/echo 'Hello world!' PS C:\Program Files\Docker\Docker> docker run ubuntu:16.04 /bin/echo 'Hello world! Hello world! 2) docker ps PS C:\Program Files\Docker\Docker> docker ps **PORTS** CONTAINER ID COMMAND CREATED **STATUS** NAMES IMAGE docker ps -a \Program Files\Docker\Docker> docker ps PS C:\Program Files\ CONTAINER ID IMAGE COMMAND CREATED **STATUS PORTS** priceless_austin 31ebc763b50c ubuntu:16.04 "/bin/echo 'Hello wo..." 23 minutes ago Exited (0) 23 minutes ago 3) docker run ubuntu:16.04 /bin/bash PS C:\Program Files\Docker\Docker> docker run ubuntu:16.04 /bin/bash PS C:\Program Files\Docker\Docker> docker ps -a CONTAINER ID b06ea35aeecc ubuntu:16.04 "/bin/bash" Exited (0) 57 seconds ago 59 seconds ago cool_raman "/bin/echo 'Hello wo..." ubuntu:16.04 34 minutes ago Exited (0) 34 minutes ago priceless_austin docker run -it ubuntu:16.04 /bin/bash PS C:\Program Files\Docker\Docker> docker run -it ubuntu:16.04 /bin/bash root@79bdbd1473a2:/# pwd and Is in bash root@79bdbd1473a2:/# pwd root@79bdbd1473a2:/# 1s root@79bdbd1473a2:/# Stopping the container by typing exit

root@79bdbd1473a2:/# exit

exit

4) docker run -d ubuntu:16.04 /bin/sleep 3600

PS C:\Program Files\Docker\Docker> docker run -d ubuntu:16.04 /bin/sleep 3600 00a5e82129c6bb97f0002f7a0b670b3ac782be54f0a806e9c6b582c5d24006b6 PS C:\Program Files\Docker\Docker>

Checking if container is running

```
PS C:\Program Files\Docker\Docker> <mark>docker</mark> ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
00a5e82129c6 ubuntu:16.04 "/bin/sleep 3600" 25 seconds ago Up 23 seconds heuristic_spence
```

5) SSHing to an active container

PS C:\Program Files\Docker\Docker> docker exec -it 00a /bin/bash root@00a5e82129c6:/# ps aux

List of running /bin/sleep processes for 1 hour

```
root@00a5e82129c6:/# ps aux
USER
           PID %CPU %MEM
                            VSZ
                                  RSS TTY
                                               STAT START
                                                            TIME COMMAND
root
             1 0.0 0.0
                           4372
                                  744 ?
                                               Ss
                                                    14:43
                                                            0:00 /bin/sleep 3600
               0.2 0.0
                          18236
                                3296 pts/0
                                                    14:45
                                                            0:00 /bin/bash
root
                                               Ss
root
            17 0.0 0.0
                          34420
                                 2832 pts/0
                                                    14:46
                                                            0:00 ps aux
```

Running a command for 1 hour

```
root@00a5e82129c6:/# exit
exit
PS C:\Program Files\Docker\Docker> <mark>docker</mark> ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
00a5e82129c6 ubuntu:16.04 "/bin/sleep 3600" 3 minutes ago Up 3 minutes heuristic_spence
```

6) Stopping a specific container using partial image ID

PS C:\Program Files\Docker\Docker> docker stop 00a 00a

Checking ps and ps -a

```
CONTAINER ID IMAGE
                            COMMAND CREATED STATUS
                                                                 PORTS
                                                                             NAMES
PS C:\Program Files\Docker\Docker> <mark>docke</mark>r ps -a
CONTAINER ID IMAGE COMMAND
                                                                 CREATED
                                                                                     STATUS
                                                                                                                         PORTS
                                                                                                                                     NAMES
00a5e82129c6
                ubuntu:16.04
                                   "/bin/sleep 3600"
                                                                 4 minutes ago
                                                                                     Exited (137) 52 seconds ago
                                                                                                                                     heuristic_spence
                                  "/bin/bash"
                                                                                     Exited (0) 13 minutes ago
Exited (0) 19 minutes ago
79bdbd1473a2
                 ubuntu:16.04
                                                                 15 minutes ago
                                                                                                                                     jovial_babbage
                                   "/bin/bash"
b06ea35aeecc ubuntu:16.04
31ebc763b50c ubuntu:16.04
                                                                 19 minutes ago
                                                                                                                                     cool raman
                                   "/bin/echo 'Hello wo.
                                                                                     Exited (0) 53 minutes ago
                                                                 53 minutes ago
                                                                                                                                     priceless austin
```

7) Removing Containers

```
PS C:\Program Files\Docker\Docker> docker rm 00a
00a
PS C:\Program Files\Docker\Docker> docker rm 79
79
PS C:\Program Files\Docker\Docker> docker rm b06
b06
PS C:\Program Files\Docker\Docker> docker rm 31
31
PS C:\Program Files\Docker\Docker> docker ps-a
docker: 'ps-a' is not a docker command.
See 'docker --help'
PS C:\Program Files\Docker\Docker> docker ps -a
CONTAINER ID
               IMAGE
                         COMMAND
                                   CREATED
                                             STATUS
                                                                  NAMES
                                                       PORTS
PS C:\Program Files\Docker\Docker> _
```

Running while removing the container after executing run

```
PS C:\Program Files\Docker\Docker> docker run --rm ubuntu:16.04 /bin/echo 'Hello and Goodbye!'
Hello and Goodbye!
PS C:\Program Files\Docker\Docker> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
PS C:\Program Files\Docker\Docker> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
PS C:\Program Files\Docker\Docker> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
PS C:\Program Files\Docker\Docker> ______
```